TAX COMMISSION BUILDING COMPUTER ROOM AIR CONDITIONING REPLACEMENT DFCM# 06172310

DFCM DESIG	JIN AINL		= CHI	ı⊏Kı	А			
(Fee A.E: Attach and fill in	n applicab	le data	for each	n drav	wing subr	mittal)		
Applicable Codes: International Building Code Planning & Design Criteria to Prevent Architectural Barriers for the Aged and the Physically Handicapped.	<u>Year</u> 2003	Intern Ashra		Plumb nergy	anical Coo oing Code Code Code)	Year 2003 2003 1999-2 2002	003
A. Occupancy and Group : B / S-1			_	E)	KISTING	_		
Change in Use : Yes No <u>X</u>					No			
B. Type of Construction (Circle) $\frac{1}{F.R.}$	<u>II </u> .R. 1 H							<u>/</u> ⊣R.
C. Location on Property : F.R. Ext. Walls (Hrs	s.): <u>N.</u> F	₹. E	xt. Wall	•	ning(s) Pr th Occupe		(Hrs.)	N.R.
D. Occupancy separation required (Hrs.): Sprinklered: Indicate Yes or No			_	E)	KISTING	_		
Stories : 1 or multiple								
a. Actual Area ² (ft) b. Basic allowable area :	EXIS	STING N.A.	_			_		
c. Allowable Area Increase due to side yards: N.A.		Area (ff N.A. N.A.) - -	% 	Area (f	') — —	% 	Area (ft
d Side ward area incredes (ft).		N.A.	_			_		
d. Side yard area incredse (ft): Accumulative sub—total (b=d):		N.A.	_					
Sprinkler: area increase (x3 single)		N.A.	_					
(x 2 multi) e. Total Allowable Area for a single		N.A.	_			_		
story:		N.A.	_					
x 2 for multi-story building:		N.A.	_					
f. Ratio = a/e (Actual divided by allowable)		N.A.	_					
E. Fire-Resistive Requirements (F	Hrs.): (1	Hr., 2Hr	., 3Hr.,	4Hr.,	N. H.T.)			
Exterior Bearing Walls:N		Flo	ors –	Ceiling	Floors	_		N/A
Interior Bearing Walls: N		Ro	ofs - (Ceiling	Roofs	_		N
Exterior Non-bearing Walls:N		Ex	terior D	oors (and Wind	ows _		NR



State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

MECHANICAL ENGINEER
WHW ENGINEERING, INC.
1354 EAST 3300 SOUTH
SUITE 200

SALT LAKE CITY, UTAH 84106 PHONE: (801) 466-4021 FAX: (801) 466-8536

ELECTRICAL ENGINEER
BNA CONSULTING ENGINEERS
635 SOUTH STATE ST.

SLC. (801) 532-2196; FAX: (801) 532-2305

SALT LAKE CITY, UTAH 84111

DRAWING INDEX:

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G001 LEGEND AND GENERAL NOT

MD101 MECHANICAL DEMOLITION PLAN

ME101 NEW MECHANICAL PLANS

ME601 SCHEDULES DETAILS

EG101 SYMBOLS, SCHEDULES, AND NOTES

ED101 ELECTRICAL DEMOLITION PLAN
EP101 ELECTRICAL POWER PLAN LEVEL 1

EP102 ENLARGED ELECTRICAL PLAN

EX101 ELECTRICAL DETAILS



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EMAIL: excellence@whw-engineering.com

		MECHAN	ICAL L	, , , , , , , , , , , , , , , , , , ,
SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.
GENERAL	IERMI	NOLOGY	WET SIDE	1 1
A		SECTION LETTER DESIGNATION	0	ELBO
ME-101		- SECTION DRAWN ON THIS SHEET	<u>C</u>	ELBO
(12)		DETAIL NUMBER DESIGNATION		TEE U
(A2)		CORRESPONDING WITH GRID LOCATION		TEE C
AH		- MECHANICAL EQUIPMENT DESIGNATION		EXIST
1		- EQUIPMENT ITEM DESIGNATION		EXIST
D-1		REGISTER, GRILLE OR DIFFUSER DESIGNATION WITH BALANCING		NEW
CFM		CFM LISTED BELOW		PIPE
R-1		GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRED		CONC
		WHERE BALANCING NOT REQUIRED		ECCE
Â		REVISION DESIGNATOR AND NUMBER		EXPA
1		KEY NOTE DESIGNATOR AND NUMBER		FLEXI
•	POC	POINT OF CONNECTION	\rightarrow	ANCH
igorplus	POR	POINT OF REMOVAL	—CD—	CONE
AFF		ABOVE FINISHED FLOOR	—L—	REFR
AP		ACCESS PANEL	—s—	REFR
Ģ EL.		CENTER LINE ELEVATION	—нс—	REFR
INV. ELEV.		INVERT ELEVATION	—gs—	GLYC
GC		GENERAL CONTRACTOR	—GR—	GLYC
MC		MECHANICAL CONTRACTOR		
CC		CONTROL CONTRACTOR		
EC		ELECTRICAL CONTRACTOR		
FPC		FIRE PROTECTION CONTRACTOR		
NIC		NOT IN CONTRACT		
NTS		NOT TO SCALE		
VCP		VITRIFIED CLAY PIPE		
С		COMMON		
NC		NORMALLY CLOSED		
NO		NORMALLY OPEN		
AIR SIDE				
<u> </u>		EXISTING EQUIPMENT TO BE REMOVED		
		EXISTING EQUIPMENT TO REMAIN		
		NEW EQUIPMENT		
T	T'STAT	WALL MOUNTED THERMOSTAT		
[2]		WALL MOUNTED TEMP. SENSOR		
SA		SUPPLY AIR		
RA		RETURN AIR		
EA		EXHAUST AIR		
OA		OUTSIDE AIR		
MA		MIXED AIR		
FA		FRESH AIR		
RF		RELIEF AIR		

GENERAL NOTES:

DESCRIPTION

EXISTING PIPING TO BE REMOVED

EXISTING PIPING TO REMAIN

ELBOW UP

TEE DOWN

NEW PIPING

PIPE CAP OR PLUG

CONCENTRIC REDUCER

ECCENTRIC REDUCER

FLEXIBLE CONNECTION

CONDENSATE DRAIN

REFRIGERANT LIQUID

REFRIGERANT SUCTION

REFRIGERANT HOT GAS

GLYCOL SUPPLY

GLYCOL RETURN

EXPANSION JOINT

ANCHOR POINT

TEE UP

ELBOW DOWN

MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

> A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

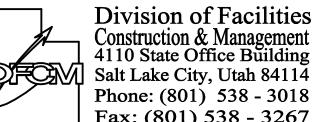
C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

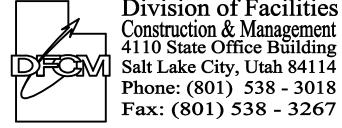
D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

- ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ARCHITECT SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.
- THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.
- THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.
- THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.
- G-7 THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED **EQUIPMENT AND CONTROLS.**
- C.F.M. LISTED IS ACTUAL AIR.
- SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.
- CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.
- ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2003 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

State of Utah Department of Administrative Services





Internet: http://www.dfcm.state.ut.us

CONSULTANTS



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PROJECT NAME & ADDRESS

TAX COMMISSION **BLDG. COMP ROOM AC REPLACEMENT**

DFCM No. 06172310

REVISION

210 North 1950 West Salt Lake City, Utah

MARK DATE

PROJECT	MANAGI WP	ER:		
	STAFI	7		
	DBY: SLW			
DATE:	•			

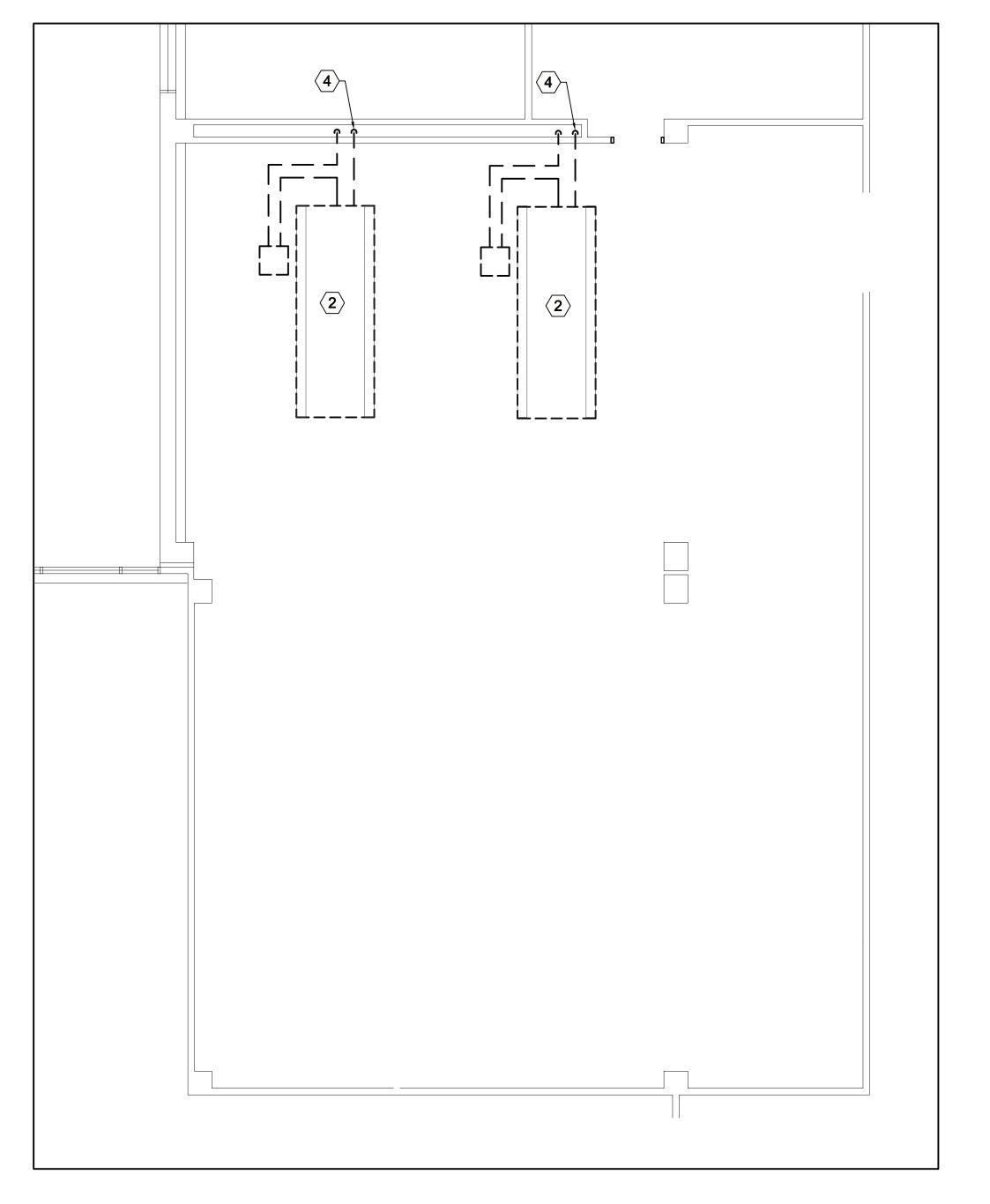
06020 SHEET TITLE

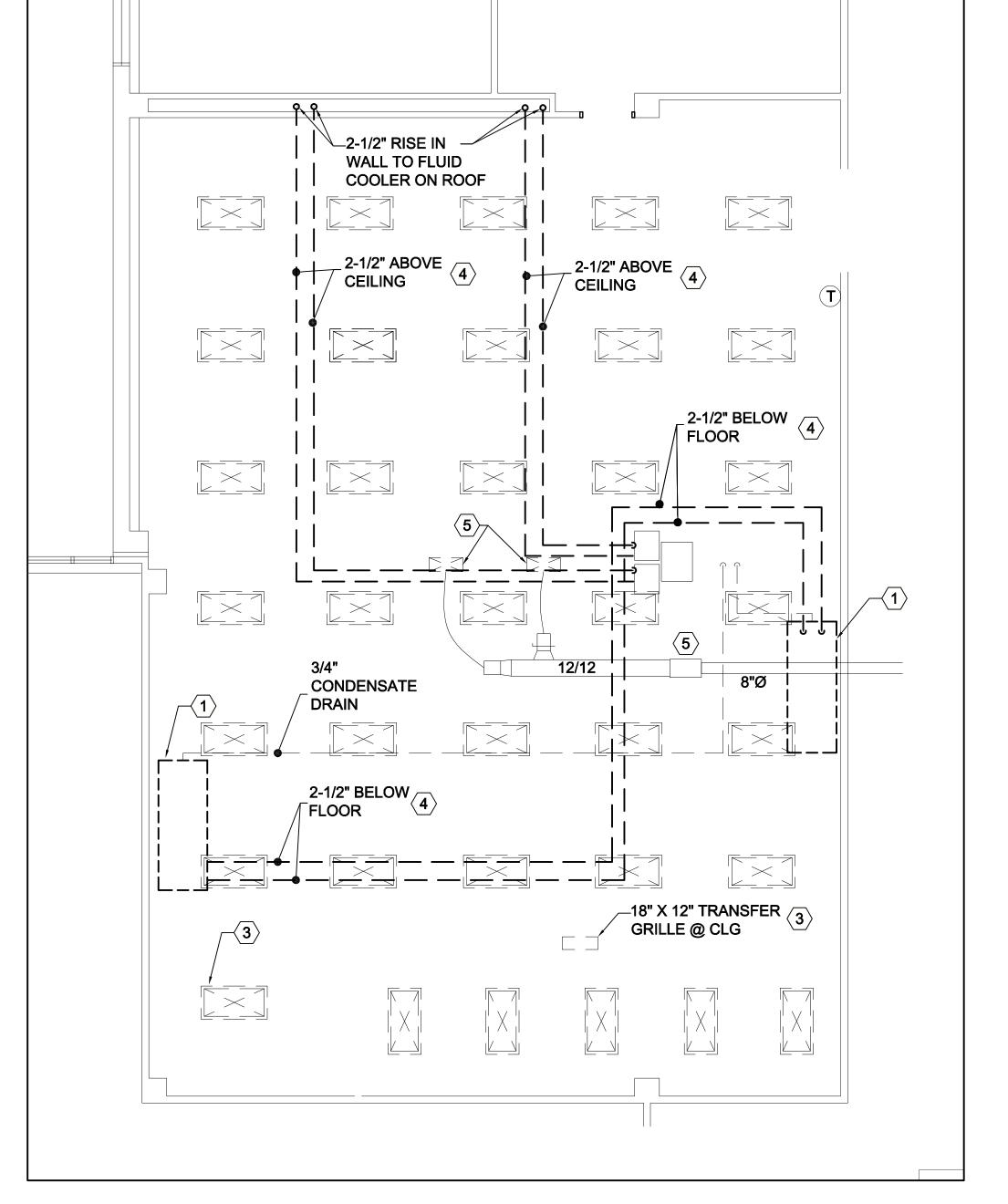
09/28/06

WHW JOB NO.:

LEGEND AND GENERAL NOTES

MG001





MECHANICAL ROOF DEMOLITION PLAN



MECHANICAL DEMOLITION PLAN



SHEET NOTES

- 1 REMOVE EXISTING COMPUTER ROOM COOLING
- 2 REMOVE EXISTING FLUID COOLER AND ASSOCIATED PUMP, EXPANSION TANK, ETC. THIS CONTRACTOR SHALL HIRE A ROOFING CONTRACTOR TO REMOVE ROOF CURB RAILS, AND PATCH AND SEAL ROOF. COORDINATE WITH ME102.
- (3) EXISTING FLOOR SUPPLY DIFFUSERS SHALL
- 4 REMOVE EXISTING GLYCOL PIPING. THIS CONTRACTOR SHALL HIRE AN APPROVED ROFFING CONTRACTOR TO PATCH AND SEAL ABANDONED ROOF PENETRATION.
- $\overline{\langle 5 \rangle}$ EXISTING VAV BOX AND ASSOCIATED DUCT AND DIFFUSERS SHALL REMAIN.

State of Utah

Department of Administrative Services



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GENERAL NOTE:

COORDINATE DEMOLITION SCHEDULE WITH OWNER, USER, AND DIVISION 16. UNITS SHALL BE REPLACED ONE AT A TIME SO COOLING FROM AT LEAST ONE UNIT WILL ALWAYS BE AVAILABLE TO ROOM.

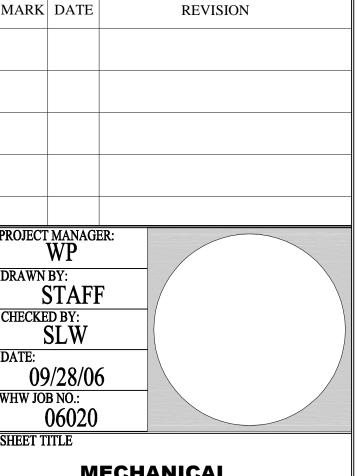
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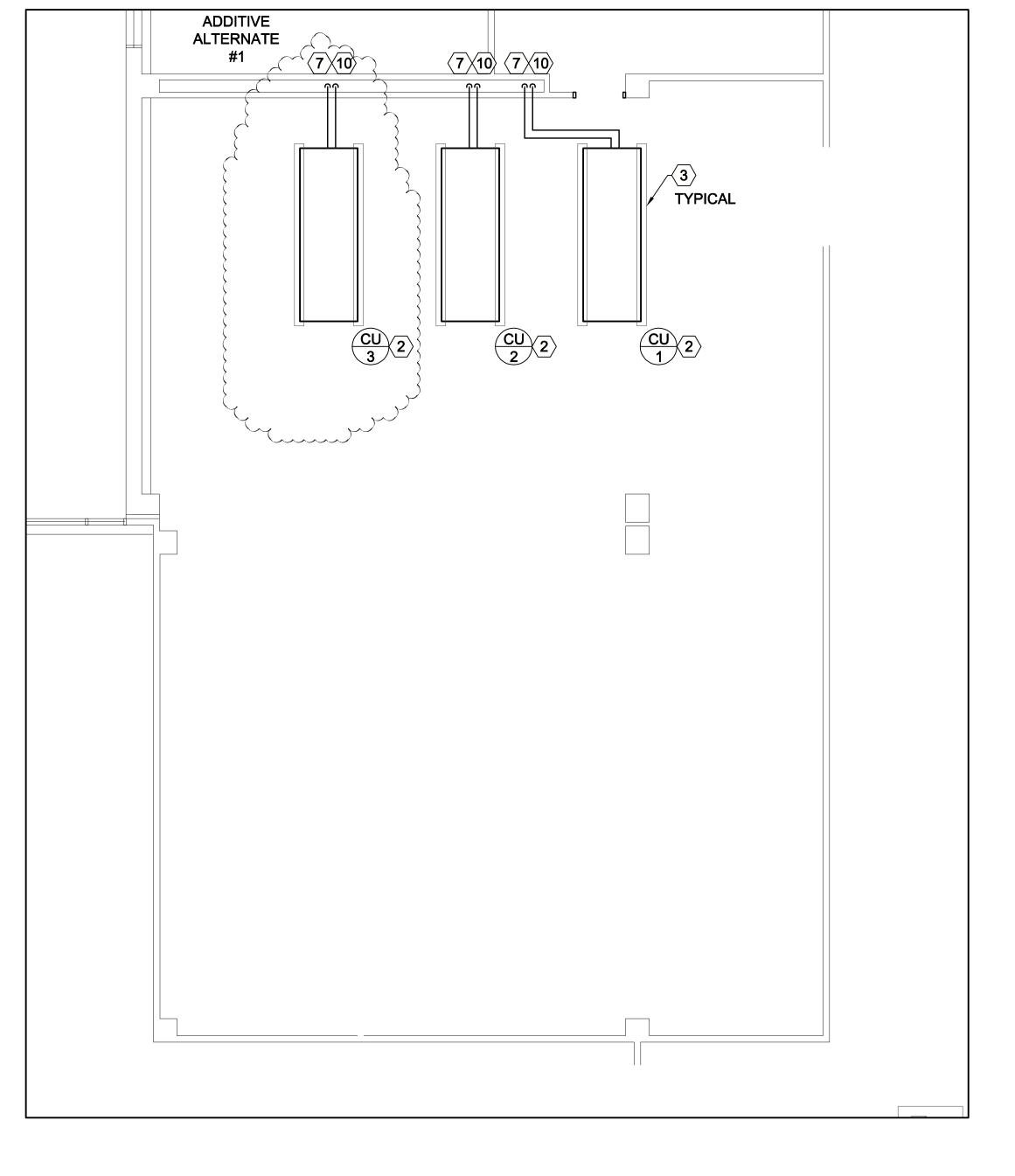


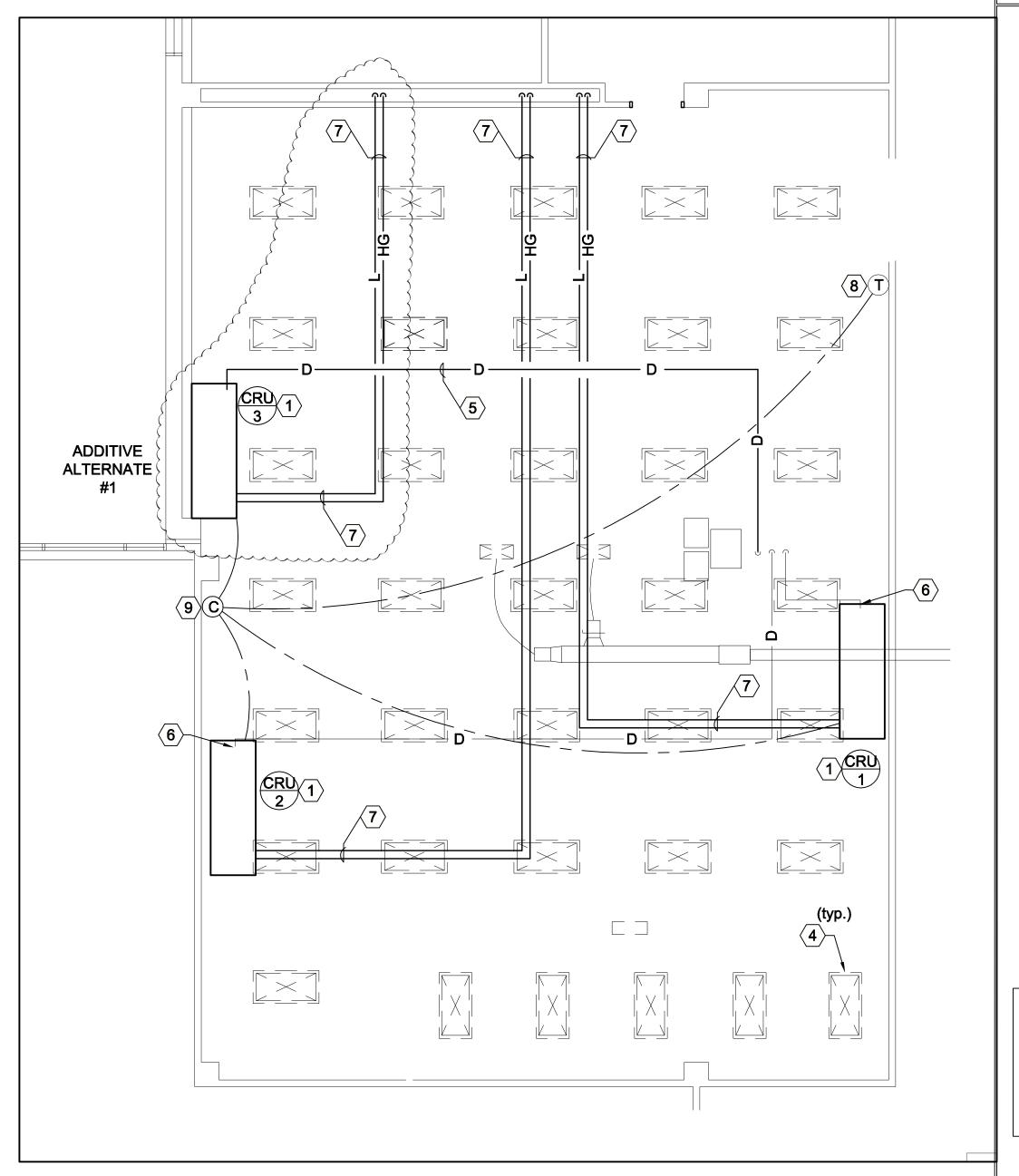
KEY PLAN

DRAWN BY: CHECKED BY: WHW JOB NO.:

MECHANICAL DEMOLITION PLANS

MD101





NEW MECHANICAL PLAN



SHEET NOTES

- 1 PROVIDE NEW COMPUTER ROOM COOLING UNIT, COMPLETE WITH NEW FLOOR STAND, DOWN FLOW TURNING VANE, ETC.
- 2 PROVIDE NEW CONDENSING UNITS ON ROOF. PIPE PER DETAILS. THIS CONTRACTOR SHALL HIRE AN APPROVED ROOFING CONTRACTOR TO INSTALL NEW ROOF RAILS FOR EQUIPMENT SUPPORT.
- (3) PROVIDE NEW ROOF MOUNTED SUPPORT RAILS TO MATCH EXISTING. COORDINATION WITH ROOFING CONTRACTOR TO FLASH, CAP, AND SEAL NEW ROOF RAILS. FIELD VERIFY EXACT SIZE AND LOCATION OF NEW SUPPORT RAILS.
- 4 EXISTING FLOOR SUPPLY DIFFUSERS SHALL REMAIN.
- 5 PROVIDE NEW CONDENSATE DRAIN FROM NEW CRU-3 TO EXISTING FLOOR DRAIN.
- (6) RE-CONNECT EXISTING CONDENSATE DRAIN PIPING TO NEW COOLING UNIT.
- 7 PROVIDE NEW 1-1/8" HOT GAS AND **NEW 7/8" LIQUID PIPING FROM INDOOR** UNITS TO OUTDOOR UNITS. EACH UNIT SHALL HAVE 2 SETS OF PIPING, ONE FOR EACH CIRCUIT, PIPE PER DETAILS AND MANUFACTURERS RECOMMENDATIONS.
- $\langle 8 \rangle$ PROVIDE NEW THERMOSTAT.
- 9 PROVIDE NEW CONTROLLER TO RUN ALL UNITS. 2 UNITS SHALL RUN CONTINUOUSLY, WITH THE 3RD AS A BACKUP UNIT SHALL ALTERNATE FOR EQUAL RUN TIME.
- (10) PROVIDE NEW PIPING RISERS TO ROOF. THIS CONTRACTOR SHALL HIRE A ROOFING CONTRACTOR TO CUT AND SEAL AROUND NEW PIPE PENETRATIONS.

GENERAL NOTE:

COORDINATE DEMOLITION SCHEDULE WITH OWNER, USER, AND DIVISION 16. UNITS SHALL BE REPLACED ONE AT A TIME SO COOLING FROM AT LEAST ONE UNIT WILL ALWAYS BE AVAILABLE TO ROOM.

State of Utah Department of Administrative Services



Division of Facilities Construction & Management 4110 State Office Building Salt Lake City, Utah 84114 Phone: (801) 538 - 3018 Fax: (801) 538 - 3267

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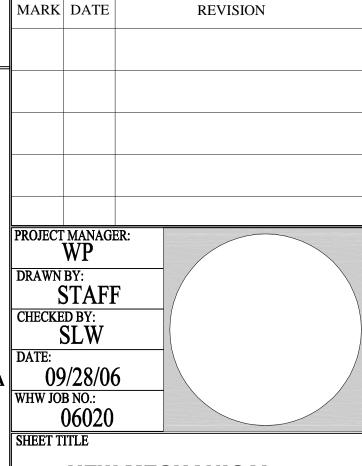
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TAX COMMISSION **BLDG. COMP ROOM AC REPLACEMENT**

DFCM No. 06172310

210 North 1950 West Salt Lake City, Utah



KEY PLAN

NEW MECHANICAL PLANS

ME101

NEW MECHANICAL ROOF PLAN

ADDITIVE ALTERNATE #1 -ATTACH TO ROOF CURB RAILS SEE DETAIL THIS SHEET -TRAPS TO EXTEND ABOVE BASE OF COIL BY A MINIMUM ENTERING HOT GAS OF 7-1/2". LINE METAL CLAMP LEAVING LIQUID LINE -FASTEN LIQUID AND HOT GAS LINES TO -ISOLATOR -INVERTED TRAP LEG USING FLAT SURFACE CLAMPS (FIELD SUPPLIED) DETAIL A-A WITH ISOLATORS (FIELD SUPPLIED). SUPPORT FIELD PIPING SEPARATELY

FAN SPEED CONTROL CONDENSERS DETAIL

TO AVOID COIL DAMAGE AND LOSS

OF CHARGE.

COMPUTER ROOM INDOOR UNIT SCHEDULE CAPACITY EVAPORATOR FAN EVAPORATOR COIL ELECTRICAL MANUFACTURER AND SYMBOL MODEL# ESP **VOLTS** HZ FLA MCA MOPD SQ. FT E MBH 1,2,3,4 226.5 226.5 11,800 0.5 22.2 460 51.0 60 LIEBERT DH245-AA00 226.5 | 11,800 | 1,2,3,4 226.5 0.5 7.5 22.2 460 60 46.6 51.0 60 LIEBERT DH245-AA00 226.5 226.5 | 11,800 | 7.5 22.2 460 60 1,2,3,4 LIEBERT DH245-AA00 0.5 46.6 51.0

- . COND. ENTERING EVAPORATOR 75 FDB & 40% RH AT 4200' ELEVATION.
- DOWNFLOW UNIT WITH FLOOR STAND AND TURNING VANE.
- PROVIDE WITH SINGLE POINT POWER CONNECTION, AND FACTORY DIS-CONNECT.
- PROVIDE WITH 4 STEP CONTROL CYLINDER UNLOADERS.
- 5. PROVIDE A CONTROLLER TO MANAGE ALL THREE UNITS.

SYMBOL	NO.				ELECT	RICAL		
	OF FANS	AREA SERVED	MIN SIZE (TONS)	SERVICE	FLA	MCA	MOPD	REMARKS
CU 1	3	CRU-1	20	460/3/60	5.9	6.5	15	1,2,3,4,5
SCO	3	CRU-2	20	460/3/60	5.9	6.5	15	1,2,3,4,5

460/3/60

5.9

6.5

COMPUTER ROOM OUTDOOR UNIT SCHEDULE

ADDITIVE ALTERNATE #1

. PROVIDE WITH FAN SPEED CONTROL FOR -20 LOW AMBIENT.

CRU-3

- 2. AT DESIGN CONDITIONS AND 100° ENTERING AIR TEMPERATURE TO CONDENSER.
- 3. CONDENSING UNIT SYMBOLS CORRESPOND WITH COMPUTER ROOM UNIT SYMBOLS.

20

- 4. SEE SPECICATIONS FOR APPROVED MANUFACTURES.
- 5. PROVIDE WITH SINGLE POINT POWER CONNECTION AND FACTORY DISCONNECT.

SCHRADER VALVE -INVERTED TRAPS ON -DISCHARGE AND RETURN CONDENSER COIL LINES TO EXTEND ABOVE -SIGHT GLASS FUSEABLE PLUG BASE OF COIL BY A MINIMUM OF 7-1/2". – LIQUID RETURN -EVAPORATOR COIL **EXPANSION-**VALVE **SENSING BULB** SHUT-OFF HOT GAS DISCHARGE - SOLENOID - - - - - FACTORY PIPING VALVE FIELD PIPING COMPRESSOR WITH CYLINDER UNLOADERS AND SERVICE VALVES FOR EACH LINE

- SEE DETAIL A-A

TYPICAL PIPING ARRANGEMENT DIAGRAM DETAIL SCALE: NONE



RAILS AND REPAIR ROOFING. PROVIDE NEW ROOF CURB RAILS TO MATCH EXISTING AS SHOWN ON

ANCHOR RAIL TO ROOF DECK. COORDINATE WITH ROOFING CONTRACTOR TO INSULATE UP TO RAIL AND RUN MEMBRANE OVER PLANS AND DETAIL THIS SHEET. REDWOOD RAILS.

ROOF CURB RAIL DETAIL

State of Utah Department of Administrative Services



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CONSULTANTS



1,2,3,4,5

─ 4x6 REDWOOD

- CANT STRIP

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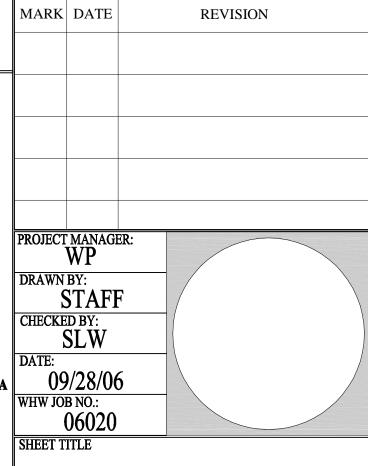
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DFCM No. 06172310

210 North 1950 West Salt Lake City, Utah



SCHEDULES AND DETAILS

ME601

CDII 1	COMPUTER ROOM UNIT		46.6 FLA	460	3	46.6	-	3 "			- -	 	- 	ST/) DISC(DEV DISC	CONNECT	AND CONTROL		5. NEMA 6. HEIGH	TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED) TO BE THE LOWER OF EITHER 80" A.F.F. OR 6" I DE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.	. USE 'HD' BELOW CEILI	48 NG
-CRU-2	COMPUTER ROOM UNIT		46.6 FLA 46.6 FLA 46.6 FLA	460 460 460			‡						_	C C		114	FACTO	RY_DISC	CONNECT	AND CONTROL AND CONTROL AND CONTROL	$\overline{\Box}$		MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON F		_
<u>~0</u> -1^	CONDENSING UNIT		6.4 FLA	460	-	6.4	_			+	Ż	 -	<u> </u>	4	₹	112	FACTO	RY DISC	CONNECT	AND CONTROL	\preceq 1	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	;
CU-3	CONDENSING UNIT		6.4 FLA	460	3	6.4	X	-			<u>~</u>			$\frac{1}{\sqrt{c}}$	c					AND CONTROL			ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL	HEIGHT	Т
NOTES:					_							<u> </u>	$\overline{}$									#	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		†
	ON-FUSED DISCONNECT SV USED DISCONNECT SWITCH	WITCH						FURNISHED FURNISHED														#	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		1
	REAKER IN ENCLOSURE ANUAL STARTER W/THERMA	AL OVERLOA	ND					CONNECTION					ION E	BUT INS	STALLE	D AND)						CONDUIT RUN CONCEALED IN WALL OR CEILING		Ť
	AGNETIC STARTER AGNETIC STARTER/NON-FU	ISED DISCO	NNECT COMBIN	NATION				CONNECTED					ECTE	D UNDE	R ANG	OTHER (DIVISION	٧.					CONDUIT RUN CONCEALED IN FLOOR OR GROUND		Ť
7. MA	AGNETIC STARTER/FUSED D AGNETIC STARTER/BREAKER	DISCONNECT	COMBINATION				OV	ER CURREN	IT PRO	TECTI	IVE C	DEVICES											CONDUIT UP		Ī
9. VA	ARIABLE FREQUENCY DRIVE EDUCED VOLTAGE STARTER							B = CIRCUIT					MAGN	NETIC:									CONDUIT DOWN		
11. DI	IRECT CONNECTION ECEPTACLE/SPECIAL PURPO		r /ETC				FN	I = FUSE -	- NON	INDU	JCTIV	VE LOAD	1417 (01	12.110									CONDUIT STUB LOCATION	CAP CONDUIT	
	NO-SPEED STARTER, COOR		•					D = MAGNE				-	KER										CABLE TRAY	AS NOTED	\perp
																						0	CEILING LIGHT FIXTURE	CEILING	\downarrow
						$D\Lambda$	<u> </u>	ELB ⁽	$\bigcap \Lambda$	\Box	$\overline{\Box}$		$\overline{\bigcirc}$			11						Ю	WALL LIGHT FIXTURE	AS NOTED	4
	3					ГА	<u> </u>				$\overline{\nu}$	<u> </u>			$\frac{\mathcal{D}}{\mathcal{D}}$	ノレ	<u> </u>						RECESSED DOWNLIGHT FIXTURE	CEILING	4
		PANEL _	EL4 (EXIST	ING)		TYPI	<u> </u>	NF			_	277/	480	voi	TS	_	3	PH		4	- w	0	FLUORESCENT LIGHT FIXTURE	AS NOTED	+
		MOUNTING				DIMENSION	s	***			LO	CATION_							X	BREAKER		•-	FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED CONCRETE	
		_	X SURFACE				_	w D	(in.)			AMP_			200			MAI	INS	SUBFEED_LUGS ISO_GROUND			AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	\neg
							_	н	RP/	/NCH	l BE	REAKER	RS							200% NEUTRAL	$\stackrel{\cdot}{-}$	\otimes	FLOOD OR TRACK FIXTURE CEILING MOUNTED EXIT LIGHT	AS NOTED CEILING	+
			ITEM	AMPO	ם יי	WIRE CIR		LEFT PHA	SE LO	AD	, <u>or</u>	RIGHT	PHAS	SE LOA		CIR.	AMDO	OLE SIZ		1 7 7-1-4		$ \otimes $	WALL MOUNTED EXIT LIGHT	AS NOTED	+
		CRU-1	ITEM	60	3	SIZE NO. 6 1	1:	A E		С	#	A 1773	B		С	2		3 12	2 CU-	ITEM 1		\$	SINGLE POLE SWITCH	+4'-0"	+
		<u>-</u> -		-	<u>-</u>	- 3 - 5		129		12908	_		177		773		_		- -			\$°	SINGLE POLE SWITCH	+4'-0"	+
		CRU-2 -		60	<u>3</u>	6 7 - 9		2908				1773	177			10	-	_	2 CU-:	2		\$ ³	THREE-WAY SWITCH	+4'-0"	+
		CRU-3	~~~	60	3	6 13		2908		1 29 08		1773	\sim		7.73	-12 14			2 CU-	3	\sim	\$4	FOUR-WAY SWITCH	+4'-0"	+
	(2)	-		-	_	- 15 - 17		129		12908	Y		177	1	773	18	_	_ _	- - - -)	\$K	KEY OPERATED SWITCH	+4'-0"	\dagger
								8 72 4 258 4043 311				5319 TOTAL	531	9 5	319					CTED LOAD TOTAL	1 2	\$P	SWITCH WITH PILOT LIGHT	+4'-0"	\dagger
								59.00 112					HASE				FOL	JIP RATII		119221 VA	-	\$0	VARIABLE INTENSITY SWITCH	+4'-0"	†
		JOB NAME:	:													_		5,000		S RMS SYM.		\$ TM	TIMER SWITCH	+4'-0"	1
																						\$	MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'-0"	T
								$\neg \Box VI$		 Σ Λ	1			тг									OCCUPANCY SENSOR	CEILING	
								<u>GEN</u>		Υ Α	\ <u>L</u>	_ \	\cup	' I C	.S							Ю	OCCUPANCY SENSOR	+4'-0"	
		1. (CONSULT ARC	HITECTUR	AL RE	EFLECTED (EILII	NG PLANS	FOR E	EXACT	LO	CATION	OF A	LL LIG	HTING	FIXTUE	JRES.					P	POWER PACK	CEILING	S
			VERIFY ALL EG															ABLE CO	ONTRACT	T DRAWINGS AND		A	AUTOMATIC RELAY PACK	CEILING	_ 5
		3. (CONTRACTOR	SHALL VE	RIFY	ALL ELECT	RICA	L LOADS (VOLTAG	GE, PI	HASE	SE, CONN	NECTIO	ON RE	QUIREI	MENTS,	s, etc.)	OF EQU	UIPMENT	FURNISHED			LOW VOLTAGE TRANSFORMER	+16" OR	\downarrow
			UNDER DIVISIO																			+	DUPLEX RECEPTACLE UPPER OUTLET SWITCH CONTROLLED	AS NOTED +16" OR)
			SEE APPLICAB WIRING DEVICE														ETC. V	WHERE A	APPLICA	BLE MOUNT ALL		0	SIMPLEX RECEPTACLE	AS NOTED +16" OR)
			SEE SPECIFICA	ATION FOR	R ENE	ERGY SAVIN	IG L	AMP AND E	BALLAS	T RE	QUIR	REMENTS	i.									+	DUPLEX RECEPTACLE	AS NOTED	+
			FINISHES OF A																			→ A	DUPLEX RECEPTACLE		+
			EQUIPMENT FO	OREIGN TO	O THE	E OPERATIO	N O	F THE ELE	CTRICA	AL EQ	UIPN	MENT SH	HALL	BE PE	RMITTI	ED TO	BE INS			G, DUCTS, OR TER OR PASS		₩ ₩P	ELECTRIC WATER COOLER RECEPTACLE WEATHERPROOF RECEPTACLE	+24" OR	+
			THRU ELECTRI			•							-					IS AD.I	IACENT 1	TO OPENINGS.		→ WP → IG	ISOLATED GROUND RECEPTACLE	AS NOTED +16" OR	1,
			COORDINATE L									2											GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16" OR	1,
		(ALL PENETRAT OF SURFACE			RATED FLO	OORS	S, WALLS, A	AND C	EILING	GS S	SHALL B	BE SE	EALED '	VITH A	APPROV	OVED MAT	TERIAL '	TO MAIN	ITAIN FIRE RATIN	IG	-	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	Т.
			CIRCUITS EXTE		VER :	70' FOR 1:	20 V	OLT AND	165' F	OR 2	277	VOLT 20	MA C	P CIRC	UITS	SHALL	. BE RUI	N WITH	MINIMU	M #10		\Box	FOURPLEX RECEPTACLE	+16" OR AS NOTED	1
		<u> </u>	CONDUCTORS.																			—	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	T.
																						•	FLOOR OUTLET WITH 20A DEVICE	FLOOR	†
	I					-		-		 ,	_	N 1	h 1									OV	MULTIPLE SERVICE FLOOR BOX	FLOOR	
						L	<i>)</i>	EMC		(\bigcup	N	N	\cup	E;	Š						•	SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	
														CTION	TO EX	ISTING	SYSTEM	MS. THIS	S INCLU	JDES LIGHTING,		+	CORD DROP		\int
			POWER, SIGNA	·										E61	. 	.	F05	v 5=:	ON ==	TOLLOTO			PLUGMOLD	+46" OR AS NOTED	
			RELOCATE, RE CONSTRUCTION)/OR	RECONNEC	T EX	XISTING ELE	CTRIC	AL DE	EVIC	ES AND,	/OR	EQUIP	IENT '	i'HAT F	FOR ANY	Y REAS(UN OBS	IRUCTS			TELEVISION OUTLET	+16" OR AS NOTED	
			CONCEAL ALL (E.G. WIRE MO								S, F	FLOORS,	ETC.	. EXCE	PT WH	HERE T	THE USE	E OF SI	URFACE	METAL RACEWAY	rs		DATA OUTLET	+16" OR AS NOTED)
			(E.G. WIRE MC LEAVE ALL EX	•							NO.	OT BEING	REN	MODEI F	D, IN	WORKI	KING COI	NDITION	I. RESTO	ORE ALL			TELEPHONE OUTLET	+16" OR AS NOTED	
		l	INTERRUPTED	BRANCH	CIRCL	JITS, FEEDE	ERS,	ETC. TO V	VORKIN	IG CC	ONDI	ITION.			·								TELEPHONE/DATA OUTLET	+16" OR AS NOTED	
		5. I	EXISTING RACE INTENT OF TH	EWAYS MA IE CONTRA	AY BE	REUSED ((IN F	PLACE) WHI SURE INTEC	ERE P SRITY	OSSIB OF EX	BLE, XISTI	AND WHING RAC	HERE EWAY	IN CC BEFO	MPLIA RE RE	NCE WI	WITH THE	E SPECI	IFICATION	NS AND THE			TELEPHONE OUTLET	FLOOR	\downarrow
		6. 1	REMOVE ALL I	RACEWAYS	s, coi	NDUCTORS,	во	XES, DEVIC	ES, E	QUIPM	IENT,	r, etc. t	ГНАТ	ARE N	от то	BE R	REUSED.						CALL SWITCH	+4'-0"	+
		7.	REMOVE EXIST	TING LIGHT	T FIX	TURES WHI	CH A	ARE NOT TO	O BE ER CH	REUS 00SF	ED,	PLACE	IN C	ARTON,	LABE	L APPF	PROPRIAT	TELY, A	ND RETU	JRN TO OWNER,		<u></u>	CLOCK OUTLET	+7'-6" +7'-6"	+
			DO NOT PENE																				CLOCK/SPEAKER COMBINATION	+/-0	_
			DISCONNECT A													PROPI	PER COM	MPLETIO	N OF TH	HE WORK.					
																							PANEL 'EL4'		
																							LL4		

EQUIPMENT SCHEDULE

FUNCTION

RECEPTACLE RIC WATER COOLER RECEPTACLE ERPROOF RECEPTACLE TED GROUND RECEPTACLE ND FAULT INTERRUPTER DUPLEX RECEPTACLE RECEPTACLE EMERGENCY POWER (RED) PLEX RECEPTACLE PLEX RECEPTACLE EMERGENCY POWER (RED) R OUTLET WITH 20A DEVICE PLE SERVICE FLOOR BOX PURPOSE OUTLET SION OUTLET UTLET HONE OUTLET IONE/DATA OUTLET HONE OUTLET WITCH OUTLET SPEAKER COMBINATION

²200A 3P

<u>ONE-LINE DIAGRAM</u>

ELECTRICAL SYMBOL SCHEDULE

NOTES

CEILING 1.3.8.

AS NOTED | 1.3.8.

+4'-0" 4. 2.

UPPER OUTLET +16" OR AS NOTED 9. 11.

AS NOTED 9. 11.

+24" OR AS NOTED 2. 9. +16" OR AS NOTED 9. 11. +16" OR AS NOTED 9. 11.

+16" OR AS NOTED 10. WITH CAP. 11.

+46" OR AS NOTED +16" OR AS NOTED 11. +16" OR AS NOTED 9. 11. +16" OR AS NOTED 9. 11. +16" OR AS NOTED 9. 11.

+7'-6" 8.

SEE DIAGRAM

CEILING SEE DIAGRAM, SPEC

CEILING SEE DIAGRAM. SPEC

SEE DIAGRAM

AS NOTED UNSWITCHED

CONCRETE SEE DIAGRAM

REMARKS

- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
 HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
 REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
 SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
 NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.
 HEIGHT TO BE THE LOWER OF EITHER 80" A.F.F. OR 6" BELOW CEILING.
 PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
- DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT. 10. SUBSCRIPT DENOTES NEMA CONFIGURATION. 11. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR. * TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN

	* TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS.						
	STANDARD N	MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON P					
	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES			
Ī	\bigcirc	JUNCTION BOX ('F' IN FLOOR)	AS NOTED				
	//	MOTOR OUTLET	TO SUIT EQUIP.				
Ī	P	PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A			
ı	TC	TIME CLOCK	+5'-0"	2.			
ľ	•	PUSHBUTTON	+4'-0"	2.			
f	<u> </u>	NON-FUSED DISCONNECT SWITCH	+5'-0"	5.			
ŀ	<u></u> FP	FUSED DISCONNECT SWITCH	+5'-0"	5.			
F	\$ ^T	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"	2.			
ŀ	γ	MAGNETIC STARTER	+5'-0"	7.			
ŀ	 	MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"				
F	VFD	VARIABLE FREQUENCY DRIVE	+6'-6"				
F	VID	PANEL BOARD	TOP AT				
ŀ			+6'-0"				
F	(//////	MAIN DISTRIBUTION PANEL					
-		TELEPHONE TERMINAL BOARD	+7'-6"				
-		BELL					
ŀ		CHIME	+7'-6"				
-	F	FIRE ALARM MANUAL STATION	+4'-0"	2.			
F		FIRE ALARM SIGNAL HORN/STROBE PROJECTORS	+6'-8"	6.			
	H	FIRE ALARM SIGNAL HORN/STROBE	+6'-8"	6.			
F	E	FIRE ALARM SIGNAL SPEAKER/STROBE	+6'-8"	6.			
-	<u> </u>	SMOKE DETECTOR	CEILING				
-	⊙ _D	DUCT SMOKE DETECTOR		MTD. IN DUCT			
-	<u> </u>	HEAT DETECTOR	CEILING				
L	<u>D</u>	FIRE/SMOKE DAMPER					
	<u> </u>	DOOR HOLDER	AS NOTED				
	F _S	FLOW SWITCH					
L	T _S	TAMPER SWITCH					
	W _F	WATER FLOOD INDICATOR					
	\triangle	O.S. & Y. VALVE		SEE DIAGRAM			
	R	FIRE ALARM RELAY					
	СМ	FIRE ALARM CONTROL MODULE					
	MM	FIRE ALARM MONITOR MODULE					
	S	FIRE ALARM STROBE	+6'-8"	6.			
	● _D	DURESS PUSHBUTTON	+4'-0"				
	∲ 1	SECURITY SYSTEM DOOR SWITCH	DOOR JAMB				
	⊕ 2	SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING	MOUNT AS PER. MAN			
	₩ L	MAGNETIC SHEAR LOCK					
	♠	SECURITY SYSTEM KEYED ACCESS SWITCH	+4'-0"	2.			
	\Diamond	INFRARED SENSOR	AS NOTED				
	₩	SECURITY MOTION DETECTOR		MOUNT AS PER. MAN			
	ⓒ	GLASS BREAK DETECTOR	CEILING				
	(ES)	ELECTRIC DOOR STRIKE					
	CR	ACCESS CONTROL CARD READER	+4'-0"	2.			
Į		CLOSED CIRCUIT TELEVISION CAMERA	AS NOTED				
	♦	DOOR POSITION INDICATING SWITCH					
	#	SOUND SYSTEM SPEAKER	+8'-0" OR AS NOTED				
	● IC	INTERCOM SPEAKER	AS NOTED				
	● _∨	VOLUME CONTROL	+4'-0"	2.			
	6 M	MICROPHONE OUTLET	+16"	11.			
	● _M	MICROPHONE FLOOR OUTLET	FLOOR				
	М	MICROPHONE CEILING OUTLET	CEILING				
		SOUND EQUIPMENT CABINET		CIRCUIT TO 120V			
	842	ARCHITECTURAL ROOM NUMBER					
	A	LIGHT FIXTURE (LETTER DESIGNATES TYPE)					
Ī	(EQ)	EQUIPMENT NUMBER					

INDEX OF ELECTRICAL DRAWINGS

EG101 SYMBOLS, SCHEDULES AND NOTES ED101 ELECTRICAL DEMOLITION PLAN EP101 ELECTRICAL POWER PLAN LEVEL 1

EP102 ENLARGED ELECTRICAL PLAN

EX101 ELECTRICAL DETAILS

SHEET NOTES

- (1) ONE-LINE DIAGRAM IS FOR REFERENCE ONLY.
- 2 ADDITIVE ALTERNATE #1.
- (3) PROVIDE NEW, UPDATED PANEL SCHEDULE FOR PANEL DOOR.



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State of Utah

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PROJECT NAME & ADDRESS

TAX COMMISSION **BLDG. COMP ROOM AC REPLACEMENT**

DFCM No. 06172310

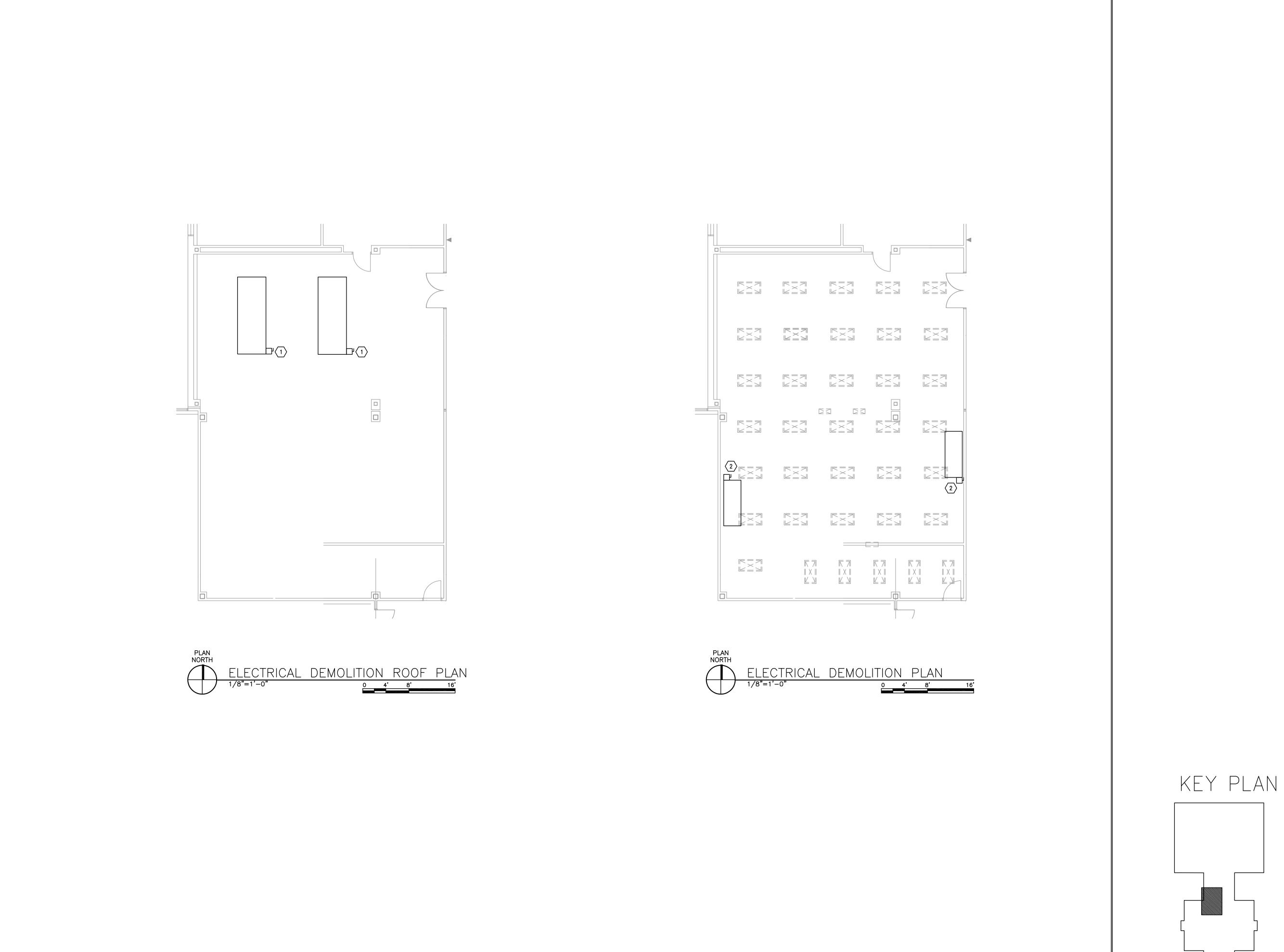
210 North 1950 West Salt Lake City, Utah

MARK DATE REVISION 1 | 8/25/06 | 100% REVIEW SET PROJECT MANAGER: DRAWN BY: STAFF CHECKED BY:

MHB 08/25/06 06291A

SYMBOLS, SCHEDULES AND **NOTES**

EG101



SHEET NOTES

- REMOVE ALL ELECTRICAL EQUIPMENT INCLUDING DISCONNECT AND ALL CONDUIT AND CONDUCTOR BACK TO PANEL 'EL4', FOR BOTH FAN AND PUMP. REMOVE ALL CIRCUIT BREAKERS FROM PANEL 'EL4'.
- REMOVE ALL ELECTRICAL EQUIPMENT, INCLUDING DISCONNECT AND ALL CONDUIT AND CONDUCTOR BACK TO PANEL 'EL4'. REMOVE ASSOCIATED CIRCUIT BREAKERS FROM PANEL 'EL4'. REMOVE BYPASS SWITCH IN ELECTRICAL ROOM ASSOCIATED WITH EQUIPMENT IN PANEL 'EL4'. (SEE SHEET EP101).

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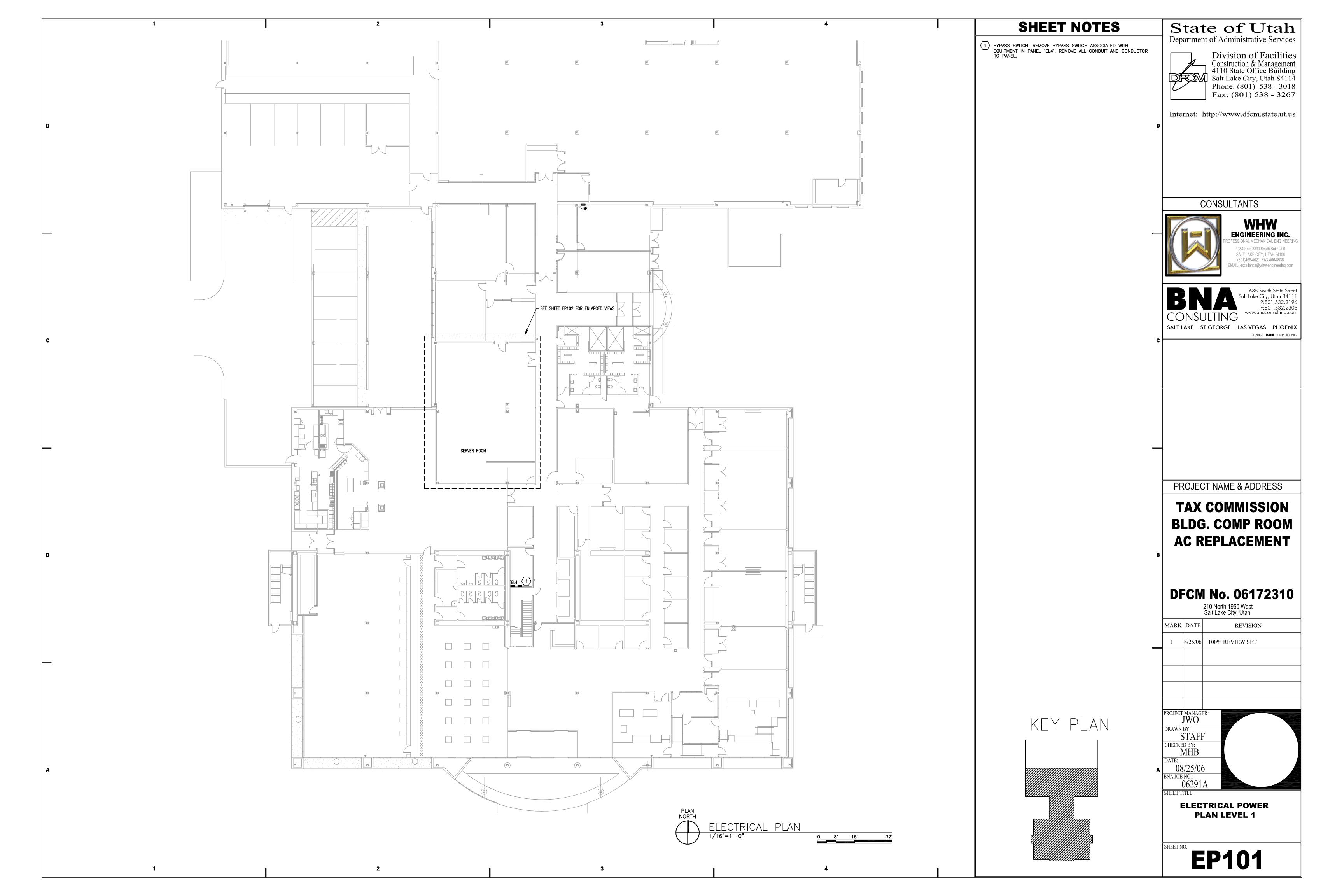
DFCM No. 06172310

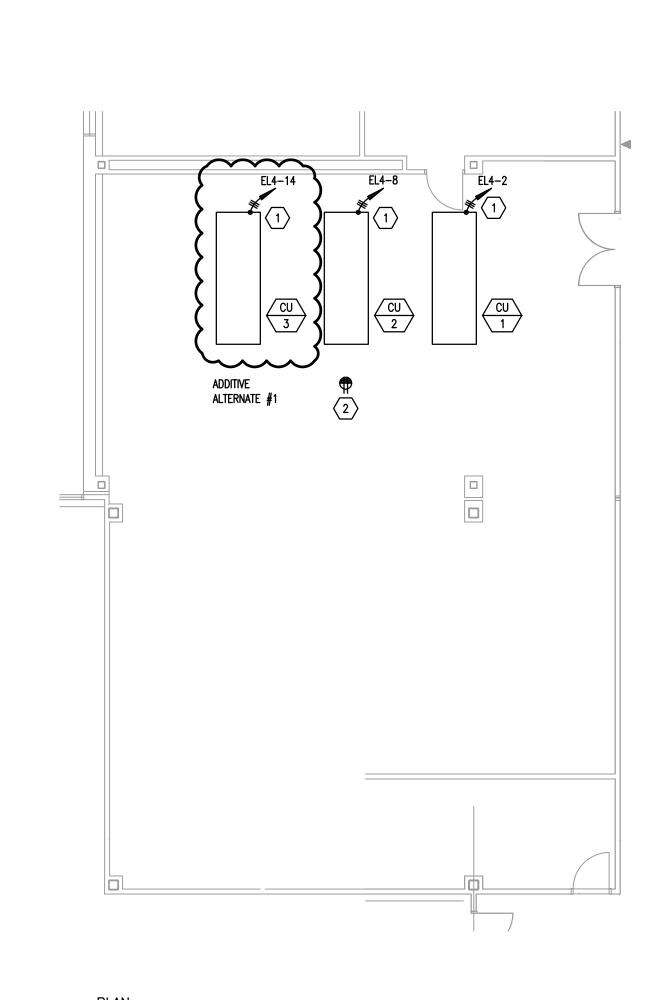
210 North 1950 West Salt Lake City, Utah

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	DATE:	<u>MHB</u>				
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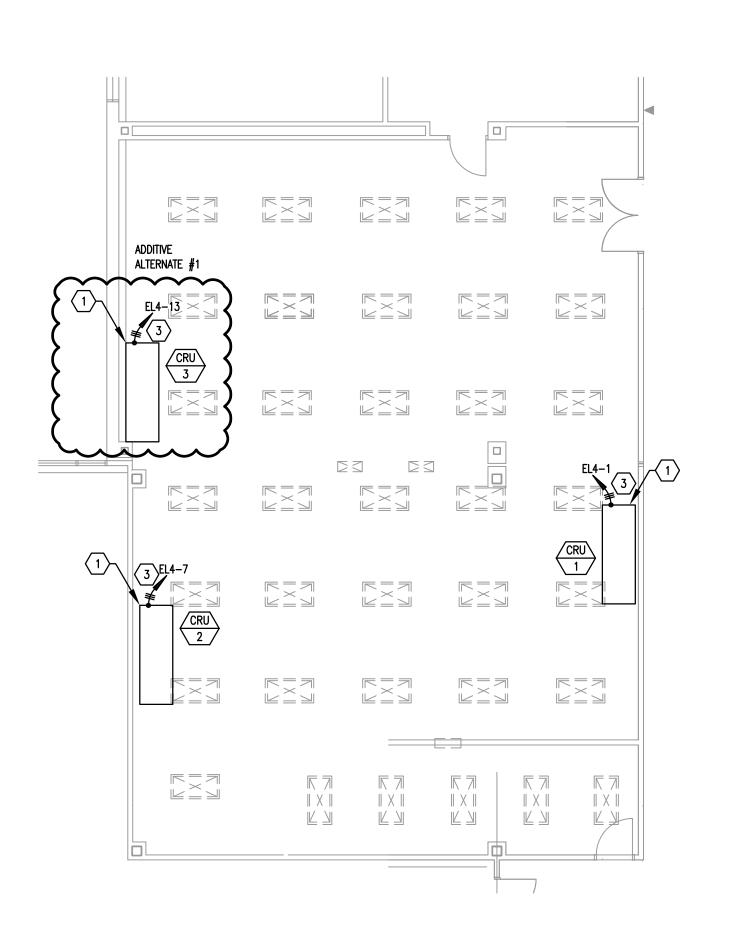
ELECTRICAL DEMOLITION PLAN

ED101





ELECTRICAL ROOF PLAN



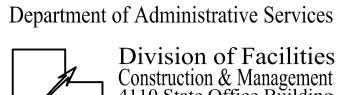


FOR CONSTRUCTION

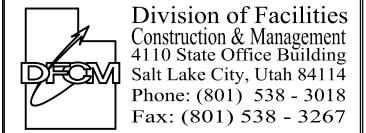
SHEET NOTES

- DISCONNECT HAS BEEN INCLUDED IN EQUIPMENT FROM MANUFACTURER.
- $\langle 2 \rangle$ PROVIDE GFCI RECEPTACLE AS PER NEC SECTION 210. CONTROLS MUST BE PROGRAMMED TO ENSURE THAT ONLY 1 CRU UNIT STARTS AT A TIME WITH A MAXIMUM OF 2 UNITS BEING ON SIMULTANEOUSLY. ELECTRICAL CONTRACTOR TO INSTALL 3/4" CONDUIT AND WIRING FROM INDOOR UNITS TO OUTDOOR UNITS.

KEY PLAN



State of Utah



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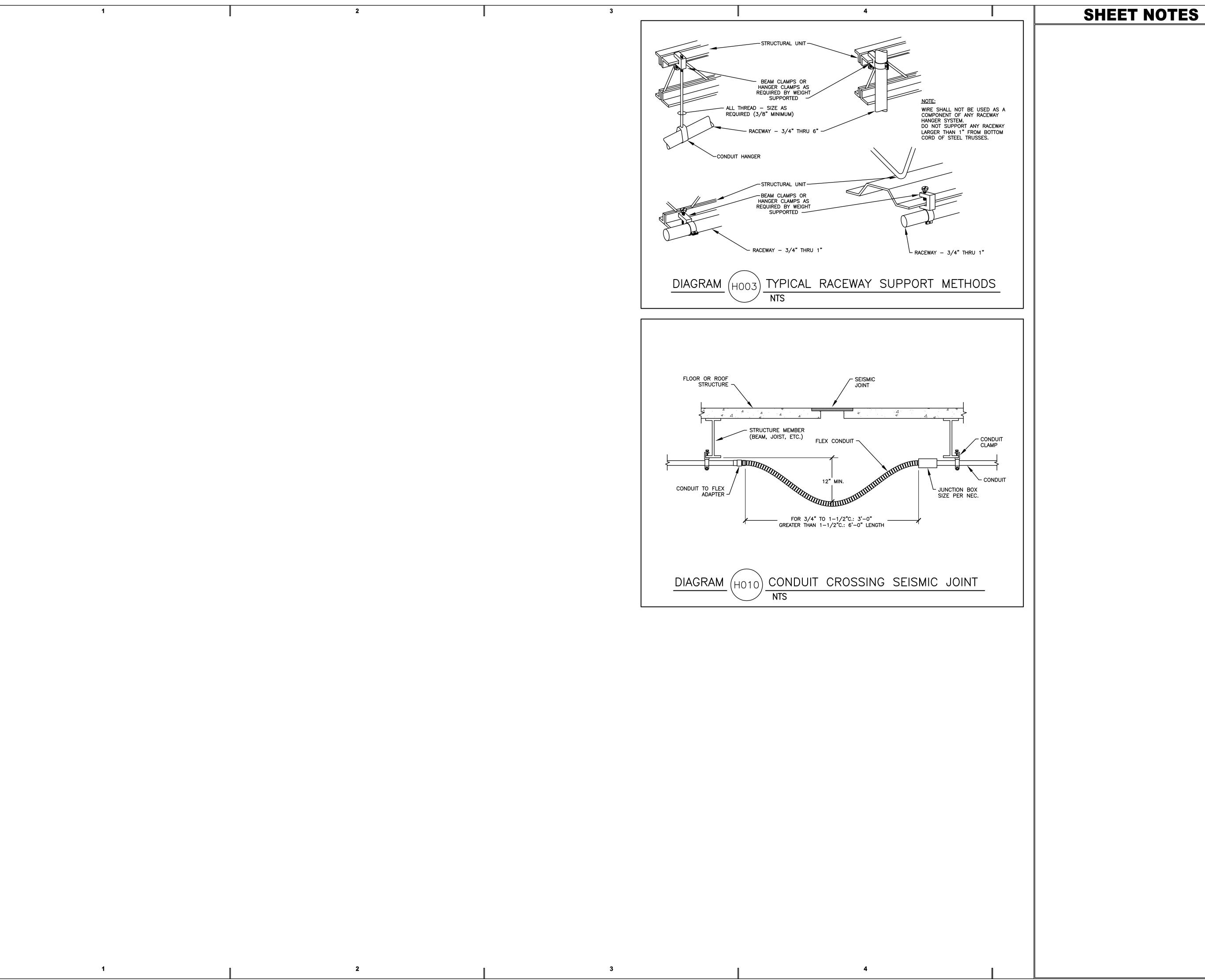
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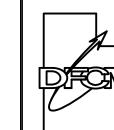
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ENLARGED ELECTRICAL PLAN

EP102



State of Utah Department of Administrative Services



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ELECTRICAL DETAILS

EX101